

Supplementary Information associated with the paper

## **Unveiling Anticancer Potential of COX-2 and 5-LOX Inhibitors: Cytotoxicity, Radiosensitization Potential and Antimigratory Activity Against Colorectal and Pancreatic Carcinoma**

**Jelena Bošković<sup>1</sup>, Vladimir Dobričić<sup>1\*</sup>, Otilija Keta<sup>2</sup>, Lela Korićanac<sup>2</sup>, Jelena Žakula<sup>2</sup>, Jelena Dinić<sup>3</sup>,  
Sofija Jovanović Stojanov<sup>3</sup>, Aleksandar Pavić<sup>4</sup>, Olivera Čudina<sup>1</sup>**

<sup>1</sup>Department of Pharmaceutical Chemistry, University of Belgrade – Faculty of Pharmacy, Vojvode Stepe 450, 1100 Belgrade, Serbia

<sup>2</sup>Vinča Institute of Nuclear Sciences, National Institute of the Republic of Serbia, University of Belgrade, Mike Petrovica Alasa 12-14, 11351 Vinca, Belgrade, Serbia

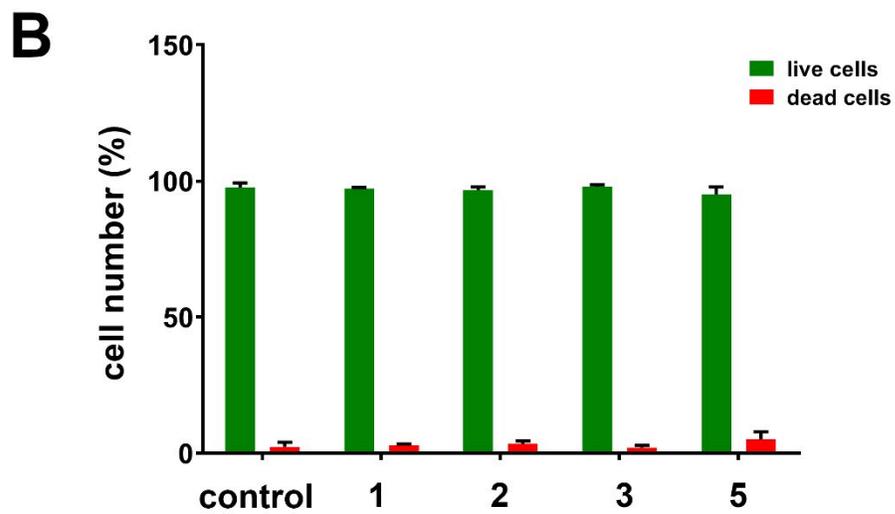
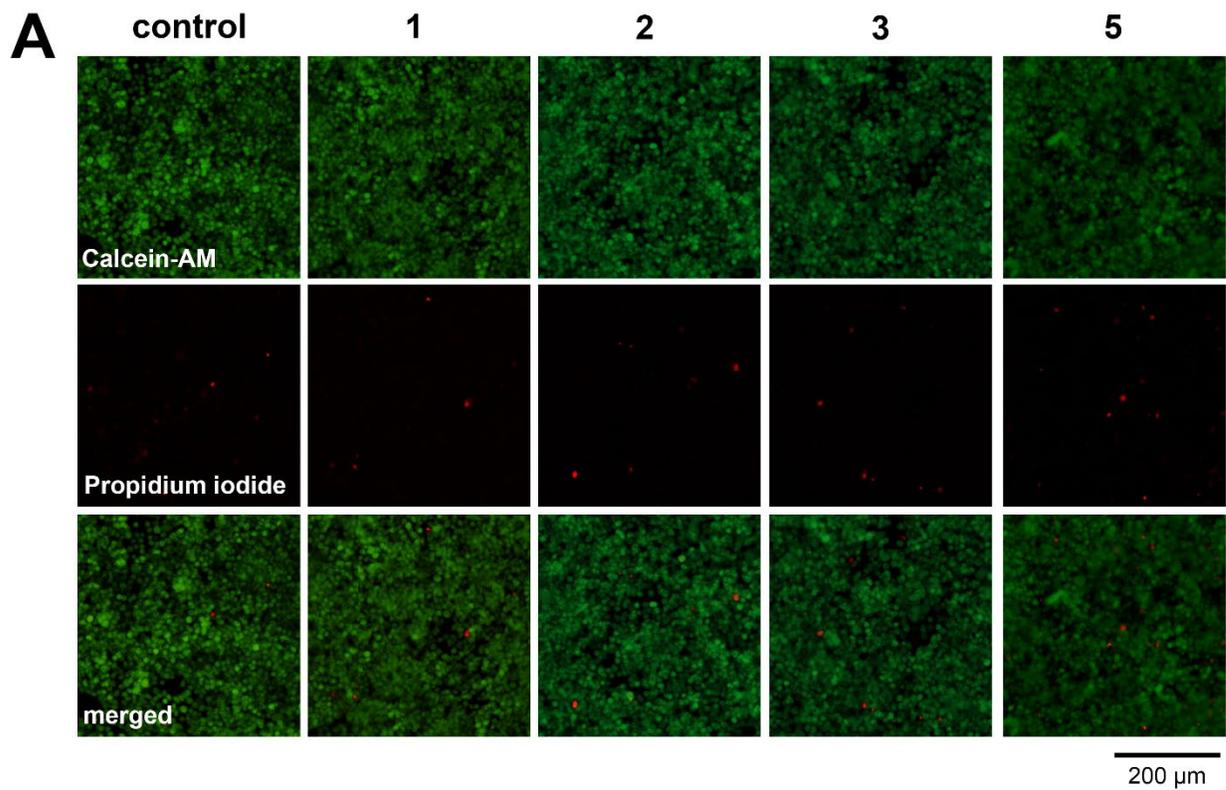
<sup>3</sup>Department of Neurobiology, Institute for Biological Research "Sinisa Stankovic", National Institute of the Republic of Serbia, University of Belgrade, Bulevar Despota Stefana 142, 11108 Belgrade, Serbia

<sup>4</sup>Laboratory for Microbial Molecular Genetics and Ecology, Institute of Molecular Genetics and Genetic Engineering, University of Belgrade, Vojvode Stepe 444a, 11000 Belgrade, Serbia

\*Correspondence: vladimir@pharmacy.bg.ac.rs

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**Figure S1.** Viability of SW620 cells after 48h treatment with 1, 2, 3, and 5: (A) representative images; and (B) quantification of Calcein-AM-labeled (live) and propidium-iodide-labeled (dead) SW620 cells after 48 h treatment with 25  $\mu$ M 1, 2, 3, and 5. The average number of live/dead cells per field was determined. Data are presented as mean  $\pm$  SD (n = 3).

**Table S1.** Lethal and teratogenic effects observed in zebrafish (*Danio rerio*) embryos at different hours post fertilization (hpf).

Category	Toxicological parameters	Exposure time (hpf)				
		24	48	72	96	120
<b>Lethal effect</b>	Coagulated eggs <sup>a</sup>	•	•	•	•	•
	Lack of the heart beating	•	•	•	•	•
	Non-detachment of the tail	•	•	•	•	•
	Lack of somite formation	•	•	•	•	•
<b>Teratogenic effect</b>	Malformation of head	•	•	•	•	•
	Malformation of eyes <sup>b</sup>	•	•	•	•	•
	Malformation of sacculi/otoliths <sup>c</sup>	•	•	•	•	•
	Malformation of chorda <sup>d</sup>	•	•	•	•	•
	Malformation of tail <sup>e</sup>	•	•	•	•	•
	Scoliosis/lordosis	•	•	•	•	•
	Yolk edema <sup>f</sup>	•	•	•	•	•
	Growth retardation <sup>g</sup>		•	•	•	•
	Hatching <sup>h</sup>			•	•	•
	Swimbladder development <sup>i</sup>					•
<b>Hepatotoxicity</b>	Yolk absorption <sup>j</sup>			•	•	•
	Liver darkening <sup>k</sup>			•	•	•
<b>Cardiotoxicity</b>	Pericardial edema <sup>l</sup>		•	•	•	•
	Heart beating rate (beat/min) <sup>m</sup>					•

<sup>a</sup> No clear organs structure is recognized

<sup>b</sup> Malformation of eyes was recorded for the retardation in eye development and abnormality in shape and size.

<sup>c</sup> Presence of none, one or more than two otoliths per sacculus, as well as reduction and enlargement of otic vesicles

<sup>d</sup> The abnormality in notochord shape

<sup>e</sup> Tail malformation was recorded when the tail was bent, twisted or shorter than to control embryos as assessed by optical comparison

<sup>f</sup> Enlargement of the yolk sac

<sup>g</sup> Growth retardation was recorded by comparing with the control embryos in a body length (after hatching)

<sup>h</sup> Embryos hatching in a period from 72 hpf to 120 hpf stage

<sup>i</sup> The presence, reduced size or absence of swimbladder

<sup>j</sup> The resorption of yolk

<sup>k</sup> The change in liver color and dark color appearance

<sup>l</sup> An appearance of pericardial sac enlargement

<sup>m</sup> The number of beats within 30 sec

**Table S2.** IC<sub>50</sub> values of compounds **1**, **2**, **3**, and **5** following 24h treatment in SW620 cells.

Compound	IC <sub>50</sub> (μM)
<b>1</b>	215.1 ± 4.9
<b>2</b>	386.3 ± 11.8
<b>3</b>	168.7 ± 5.7
<b>5</b>	131.8 ± 3.5